



MULTICAL® 603 & ULTRAFLOW®





MULTICAL® 603 & ULTRAFLOW®



> 60 °C



230 VAC



16/25/40 bar



04



05



07



13



19



21



26



29



30



35



https://guides.kamstrup.com/userguides/gb_mc603.htm



<https://www.kamstrup.com/en-en/heat-solutions/meters-devices/meters/multical-603/documents>



<https://www.kamstrup.com/>



1/2

E1

MID	✓	EN 1434	✓
θ : 2 °C...180 °C		$\Delta\theta$: 3 K...178 K	✓

E3

DK-BEK 1178	✓	EN 1434	✓
θ : 2 °C...180 °C		$\Delta\theta$: 3 K...178 K	✓

E1 E3

		EN 1434	✓
θ : -40 °C...140 °C		$\Delta\theta$: 3 K...178 K	✓

ULTRAFLOW®

θ_q : 2 °C...130 °C	✓
θ_q : 15 °C...130 °C	✓



E1 ✓ **E2** ✓

M1 ✓ **M2** ✓

5 °C...55 °C ✓

MULTICAL® 603: IP 54 ✓

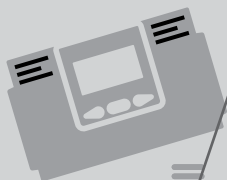
ULTRAFLOW® 44: IP 68 ✓

ULTRAFLOW® 54: IP 65 ✓

> 25 CM



2/2



Data +

HC-003-10



Data +

HC-003-11



M-Bus +

HC-003-20



M-Bus +

HC-003-21



M-Bus +

HC-003-22



30



1xD

HC-993-02



1xC IoT

HC-993-06



230 VAC

HC-993-07



24 VAC

HC-993-08



2xA

HC-993-09



31



DS 27,5 mm

2 x Pt500



DS 38,0 mm

2 x Pt500



PL ø5,8 mm

2 x Pt500



DS 27,5 mm

2 x Pt100



32



MULTICAL® 603-M

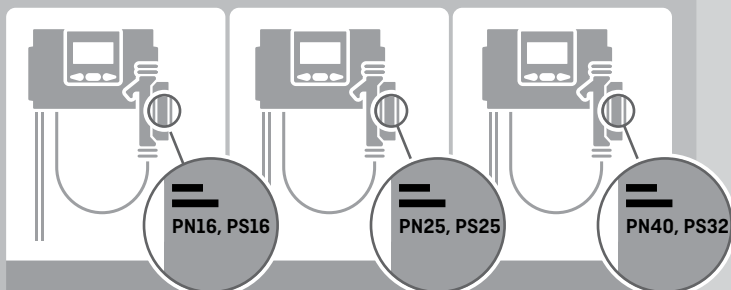
2 x Pt500





1/7

DN15 - DN125



PN16, PS16



PN16, PS16 < DN100



PN16, PS16



PN25, PS25



PN25, PS25



PN25, PS25



PN40, PS32



PN40, PS32



PN40, PS32



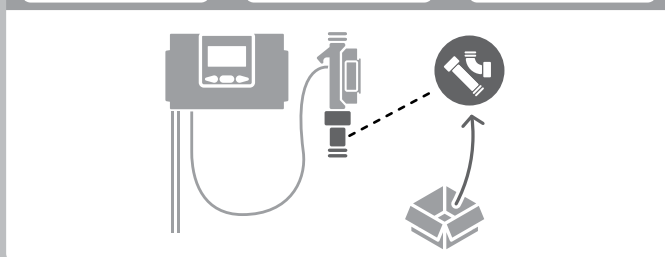
PN16, PS16



PN25, PS25



PN40, PS32



DN20



DN25 / DN15



DN32 / DN10





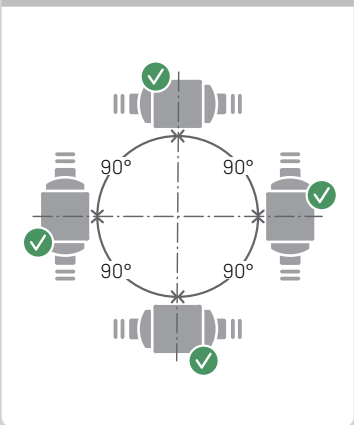
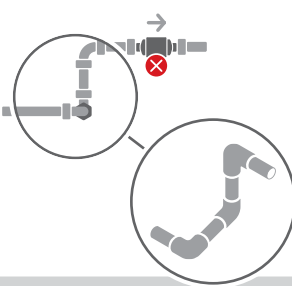
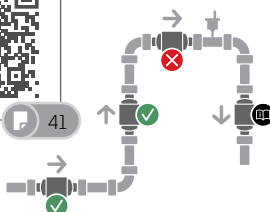
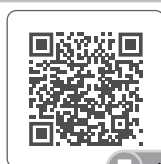
ULTRAFLOW®

11 -		V2
9 +		
69		
11 -		V1
9 +		
10		



V1	11 -	
	10	
V2	11 -	
	69	

V1	11B -	
	10B +	



E3

qp 0.6...2.5 m³/h

E3

qp ≥ 3.5 m³/h

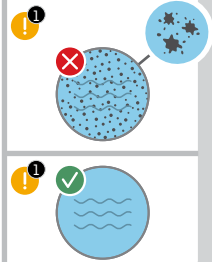
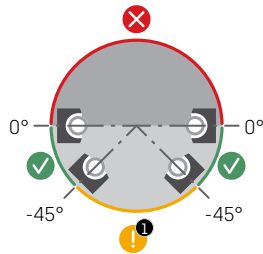
E3

qp ≥ 6.0 m³/h



4/7

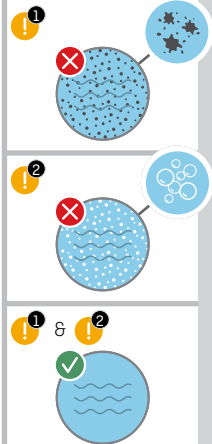
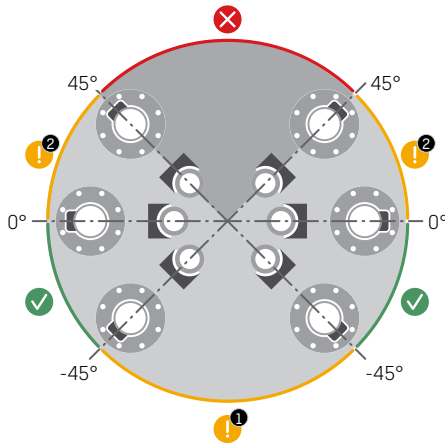
qp 0.6...2.5 m³/h



qp ≥ 3.5 m³/h

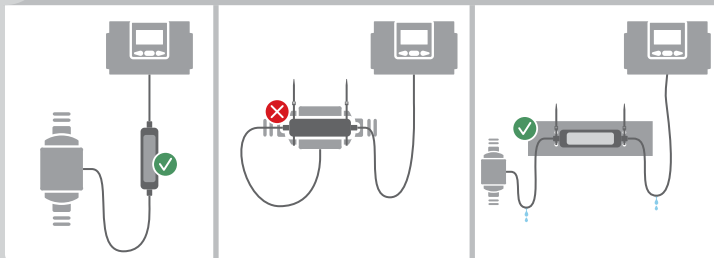


qp ≥ 6.0 m³/h

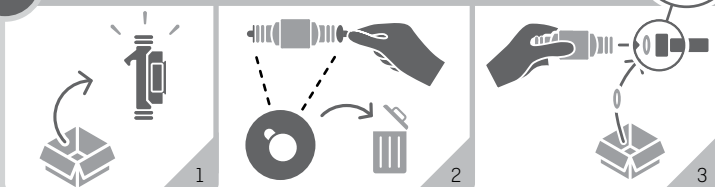
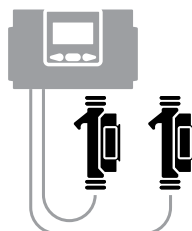
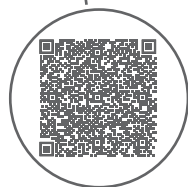


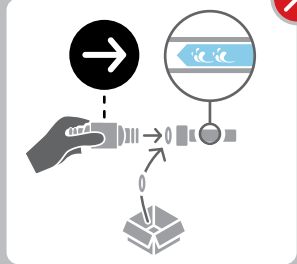
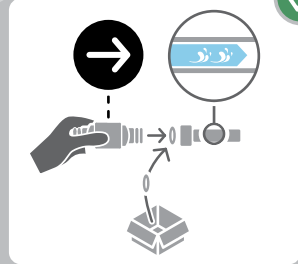
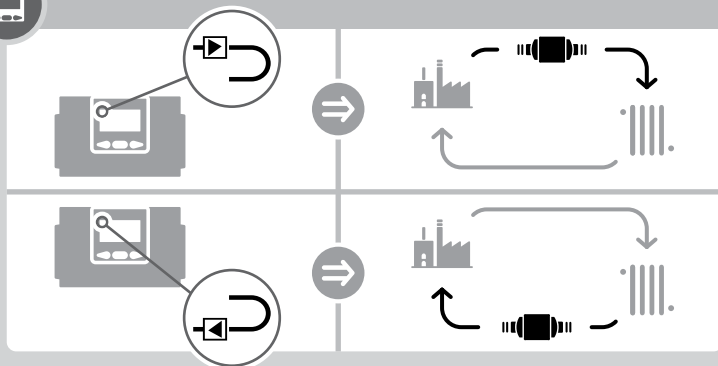


ULTRAFLW® 44



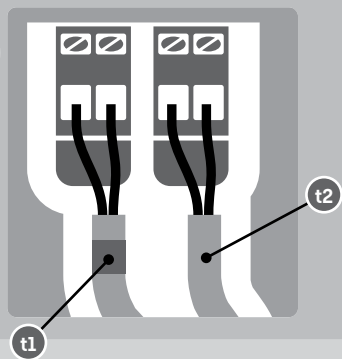
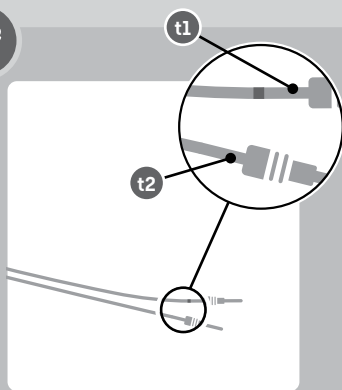
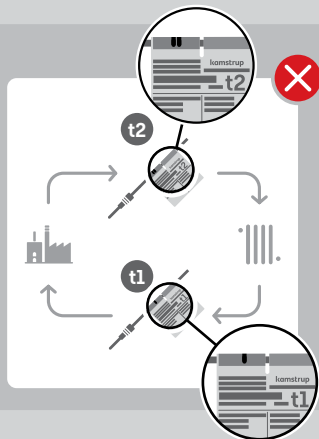
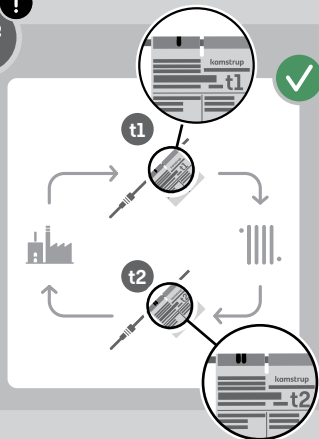
+ V2







1/6

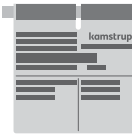
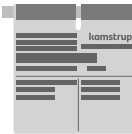




(x1) t1

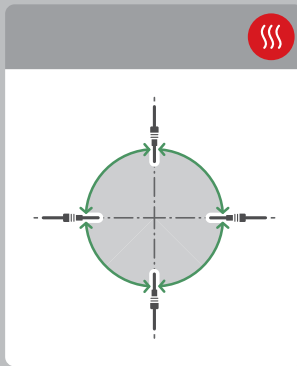
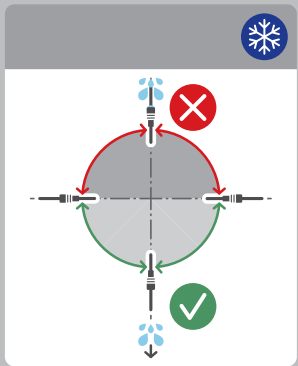
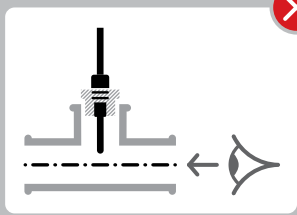
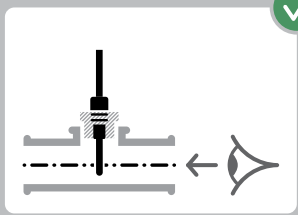
(x2) t2

(x0) t3

	 t1	 t2	 t3
			
			
			



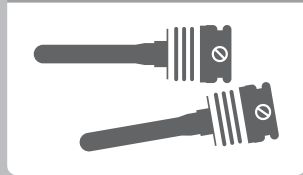
3/6



PN16



PN25

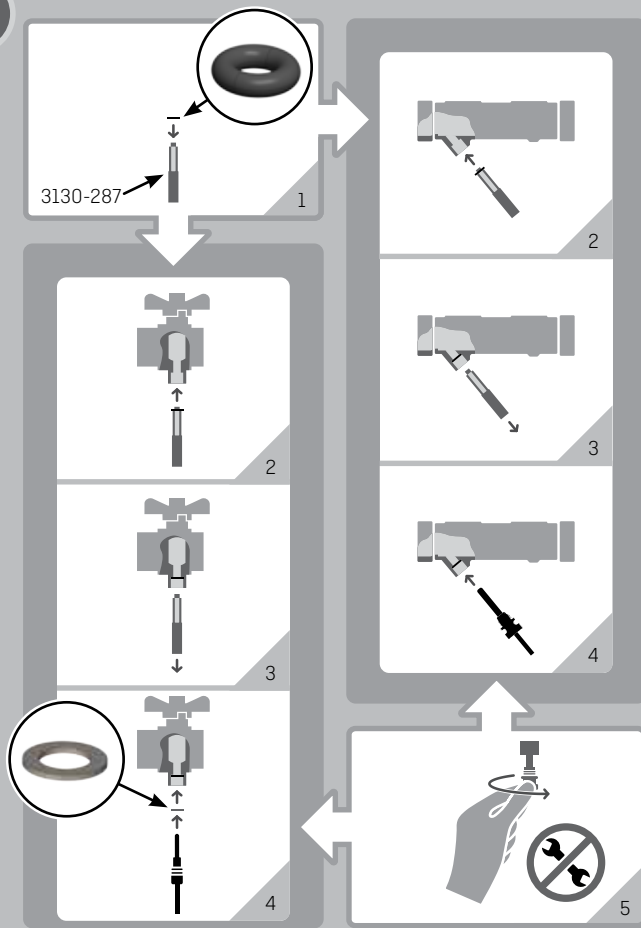


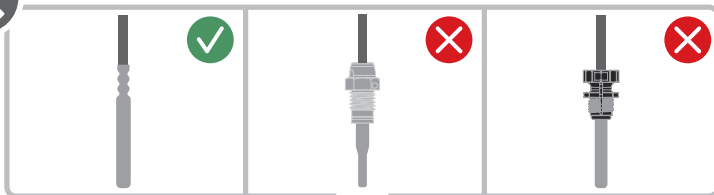
PN16



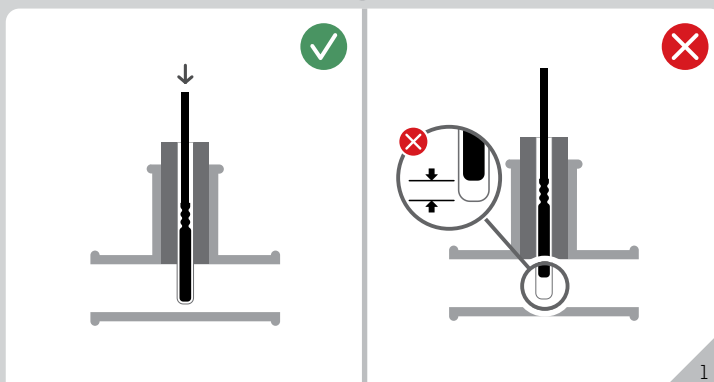
PN25



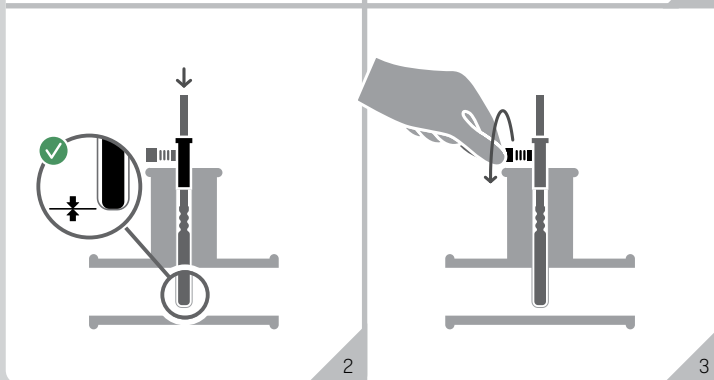




5/6

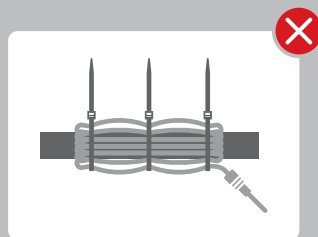
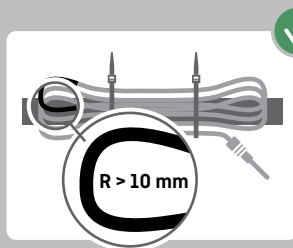
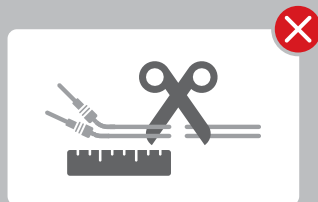
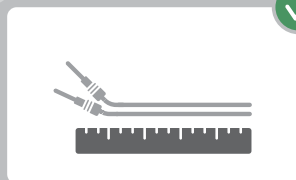
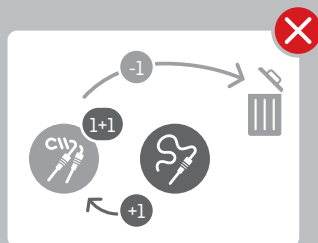
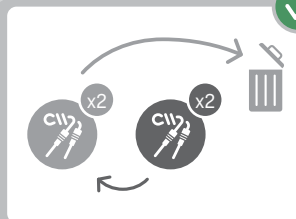


1



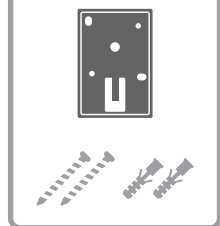
2

3

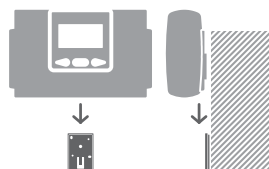




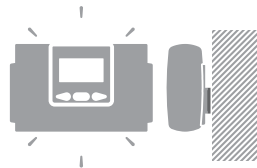
3026207.A



1



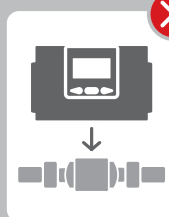
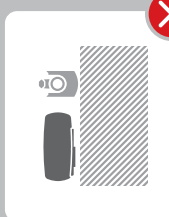
2



3

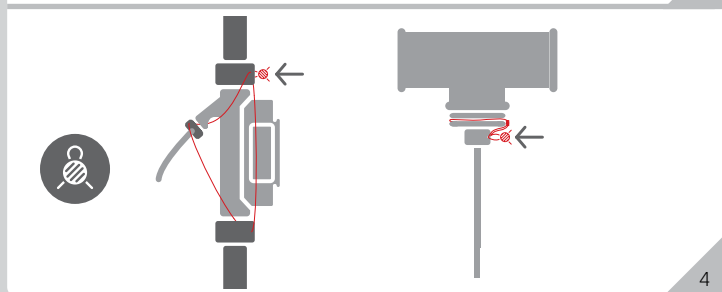
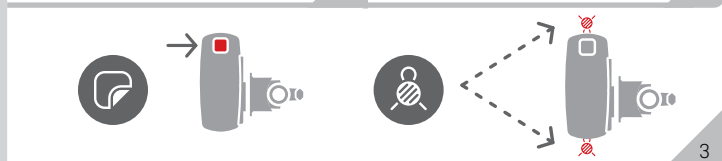
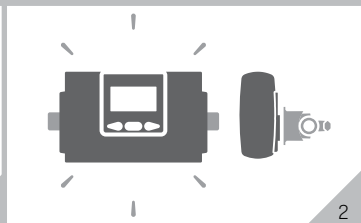
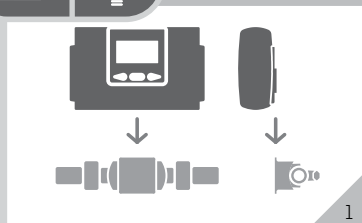


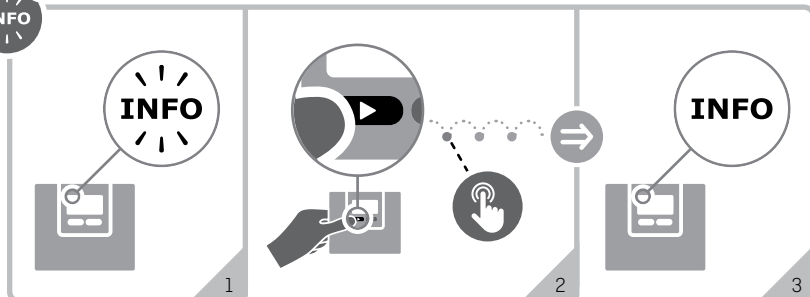
E3





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1/5

1 2 3 4 5 6 7 8

Info t1 t2 0 V1 0 In-A In-B

1								
2								
9								





Diagram showing the connection of the MULTICAL® 603 & ULTRAFLOW® device to a control system. The device has a digital display showing '102000090' and an 'INFO' button. Eight lines connect the display digits to a table below.

Info	t1	t2	0	V1	0	In-A	In-B
	1						
		1					
			1				
	2						
		2					
			2				
	9	9					
						9	
						8	
						9	

Legend for the table:

- t1 > 185 °C**: **t1**
- t2 > 185 °C**: **t2**
- t3 > 185 °C**: **t3**
- t1 < 0 °C**: **t1**
- t2 < 0 °C**: **t2**
- t3 < 0 °C**: **t3**
- Δt (t1-t2) = ✗**:
- A:**
- B:**



INFO

3/5

Diagram illustrating the connection of the MULTICAL® 603 & ULTRAFLOW® device to a control system. The device has a digital display showing "10200090" and an "INFO" button. Eight numbered lines (1-8) connect the device to a control panel.

The control panel features a table with columns: Info, t1, t2, 0, V1, 0, In-A, In-B. Below the table are six rows of configuration options for V1 and V2.

Info	t1	t2	0	V1	0	In-A	In-B
				1			
				1			
				2			
				2			
				3			
				3			
				4			

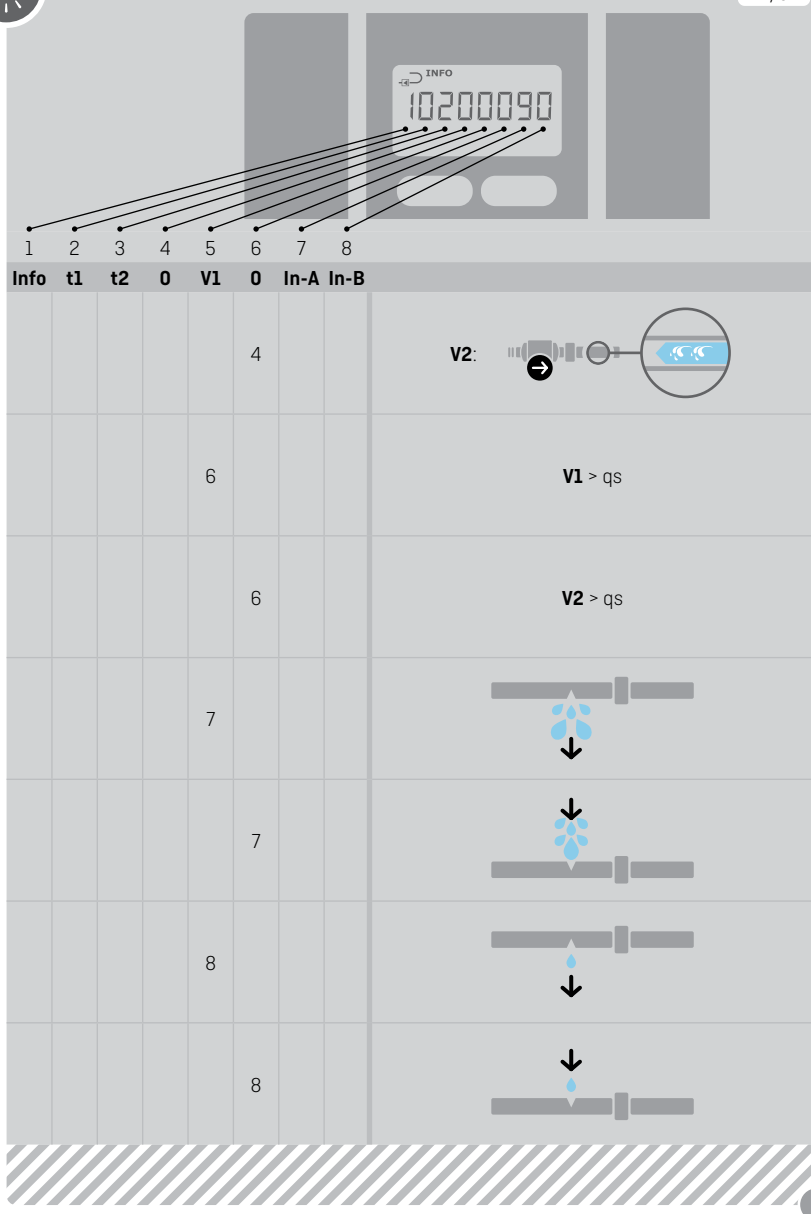
Configuration options for V1 and V2:

- V1:
- V2:
- V1: $p/I = \text{X}$
- V2: $p/I = \text{X}$
- V1:
- V2:
- V1:



INFO

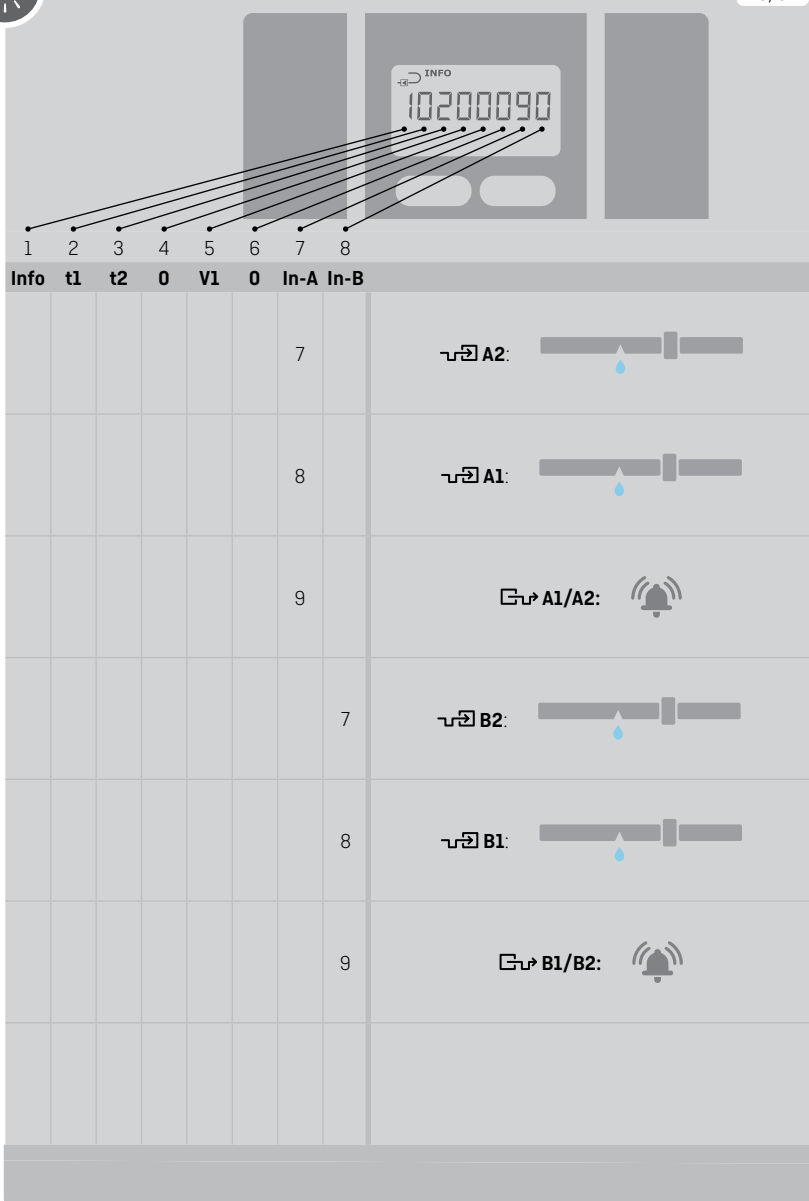
4/5





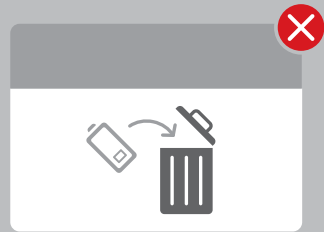
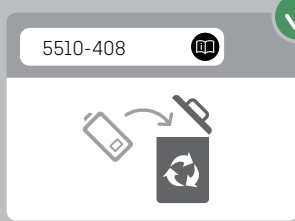
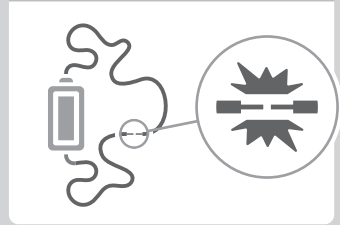
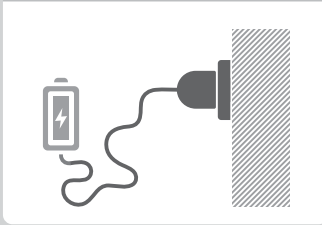
INFO

5/5





1/3





2/3

230 VAC / 50 Hz / 1 W



230 VAC / 50 Hz / 1 W

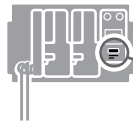
24 VAC / 50 Hz / 1 W



24 VAC / 50 Hz / 1 W

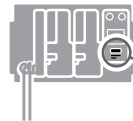
24 VAC/VDC / 50 Hz / 1 W

230 VAC



230 VAC

24 VAC



24 VAC

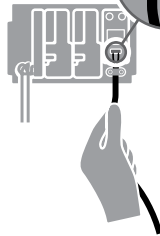


d = 5...8 mm

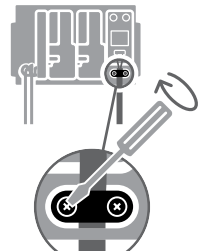


d = 5...8 mm

1



2

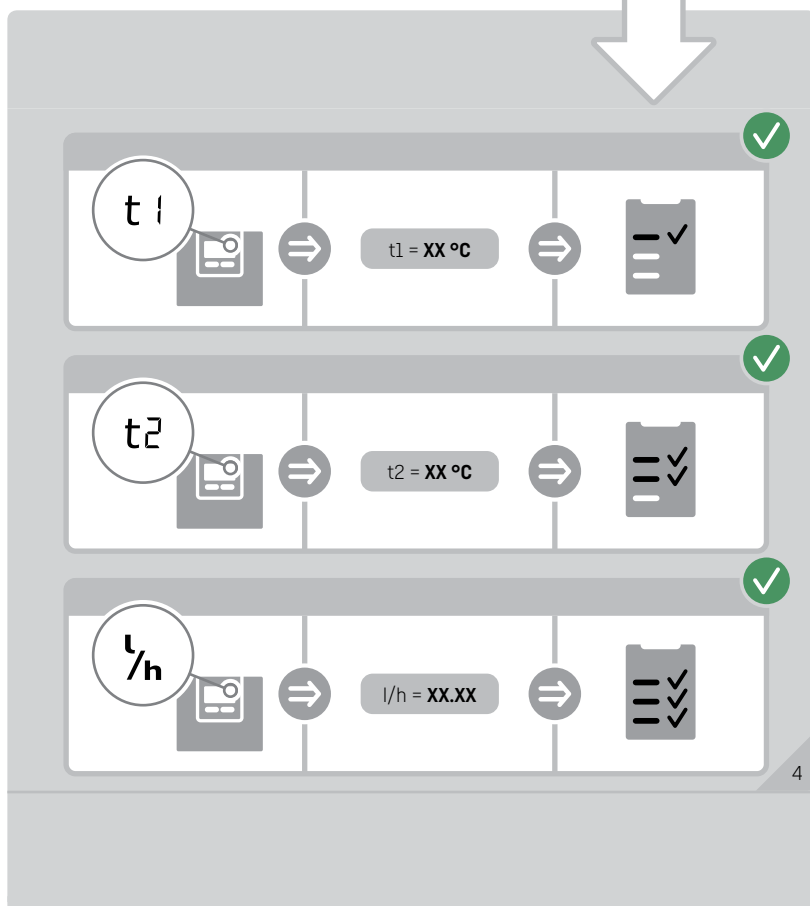
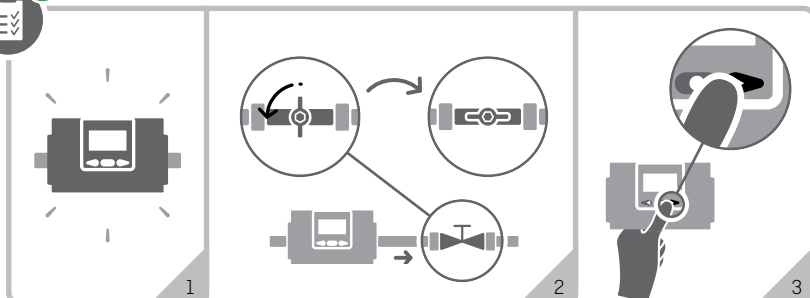


3



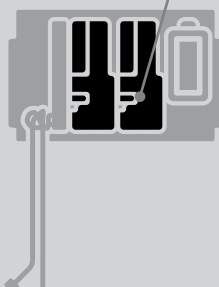
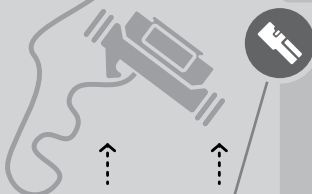
3/3







<https://www.kamstrup.com/en-en/heat-solutions/meters-devices/meters/multical-603>



Data +	HC-003-10	
Data +	HC-003-11	
M-Bus +	HC-003-20	
M-Bus +	HC-003-21	
M-Bus +	HC-003-22	
wM-Bus +	HC-003-30	
wM-Bus +	HC-003-31	
linkIQ/wM-Bus +	HC-003-32	
linkIQ/wM-Bus +	HC-003-33	
wM-Bus+	HC-003-34	
Analog	HC-003-40	
Analog	HC-003-41	
PQT+	HC-003-43	
Radio +	HC-003-50	
Radio GDPR +	HC-003-51	
NB-IoT +	HC-003-56	
LON TP/FT-10	HC-003-60	
BACnet +	HC-003-66	
Modbus RTU +	HC-003-67	
2G/4G Network	HC-003-80	
BACnet IP +	HC-003-81	
Modbus +	HC-003-82	
READy TCP/IP	HC-003-83	
Kamstrup RF HP	HC-003-84	
Kamstrup RF HP GDPR	HC-003-85	

= In-A / In-B

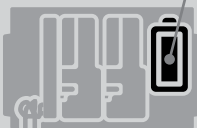
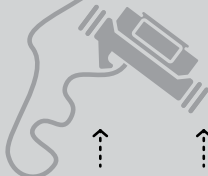
= Out-C / Out-D

= In 1 / In 2

= Out 1 / Out 2



<https://www.kamstrup.com/en-en/heat-solutions/meters-devices/accessories>

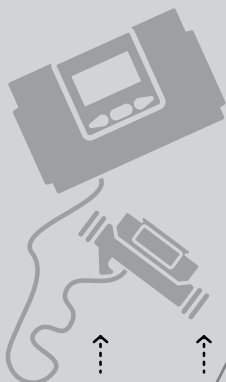


1xD	HC-993-02	✓
230 VAC ⚡	HC-993-03	✓
24 VAC/VDC ⚡	HC-993-04	✓
1xC IoT	HC-993-06	✓
230 VAC	HC-993-07	✓
24 VAC	HC-993-08	✓
2xA	HC-993-09	✓



3/3

<https://www.kamstrup.com/en-en/heat-solutions/meters-devices/temperature-sensors>



2 x  Pt500



DS 27,5 mm L = 1,5 - 3,0 m

DS 38,0 mm L = 1,5 - 3,0 m

PL ø5,8 mm L = 1,5 - 10,0 m

2 x  Pt100



DS 27,5 mm L = 2,0 m

4 x  Pt100/Pt500



PL ø6,0 mm L = 105 - 230 mm

PL ø5,8 mm L = 65 - 180 mm





TA 2
0009089
MWh

TA 3
0005453
MWh

TA 4
0003635
MWh

INFO
00000000

11223344
N°

100.00
%

b |
0014958
kWh

B1

qP=1.5

VOL R |
0034732
m³

A1

0046.092
MWh

E1

15.7
kW

kW

0019674
MWh

E3

0.959
l/h

t l2
39.38
°C

t1 - t2

t 2
27.14
°C

t2

t 1
66.52
°C

t1

0026280
h

h

0287706
m³

m³

H₂O

DDD = 310/610

https://guides.kamstrup.com/userguides/gb_mc603.htm



MULTICAL® 603 & ULTRAFLOW®

